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Erratum

Erratum to "Parallel machine scheduling with time dependent processing times" [Discrete Appl. Math. 70 (1996) 81–93]

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There is an error in my paper "Parallel machine scheduling with time dependent processing times" published in this journal in 1996 (Vol. 70, pp. 81–93). Theorem 2.5 of the paper (see p. 85) should be corrected as follows:

Theorem 2.5. *The PTCT problem is* NP*-hard in the ordinary sense even with a fixed number of machines.*

In the paper, the PTCT problem is shown to be NP-hard in the strong sense by a reduction from the subset product problem, which is identified as a strongly NP-complete problem in the first edition of the well-known book by Garey and Johnson: *Computers and Intractability: A Guide to the Theory of NP-Completeness* (Freeman, San Francisco, CA, 1979). Unfortunately, until Professor Nicholas Hall of Ohio State University brought to my attention, very recently I did not notice that the actual complexity status of the subset product problem is ordinarily NP-complete because there exists a pseudo-polynomial algorithm for solving the problem, as pointed out by Johnson later in his paper "The NP-complete columns: an ongoing guide" (J. Algorithms 2 (1981) 402). Thus, Theorem 2.5 of my paper should be corrected as above. The corrected result is true because the transformation given on p. 83, from the instance of the subset product problem into the instance of the PTCT problem, is polynomial. This correction does not affect any other result stated in the paper.

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